

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
16 June 2005 (16.06.2005)

PCT

(10) International Publication Number  
**WO 2005/054776 A1**

(51) International Patent Classification <sup>7</sup> :	G01B 7/00	(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
(21) International Application Number:	PCT/EP2004/052972	(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date:	16 November 2004 (16.11.2004)	
(25) Filing Language:	English	
(26) Publication Language:	English	
(30) Priority Data:		
	BO2003A000694	
	20 November 2003 (20.11.2003) IT	
(71) Applicant (for all designated States except US):	MARPOSS SOCIETA' PER AZIONI [IT/IT]; via Saliceto 13, I-40010 BENTIVOGLIO BO (IT).	
(72) Inventor; and		
(75) Inventor/Applicant (for US only):	DALL'AGLIO, Carlo [IT/IT]; via Brigadiere Lombardini 5, I-40050 CASTELLO D'ARGILE BO (IT).	
(74) Common Representative:	MARPOSS SOCIETA' PER AZIONI; Patent Department, via Saliceto 13, I-40010 BENTIVOGLIO BO (IT).	

**Declaration under Rule 4.17:**

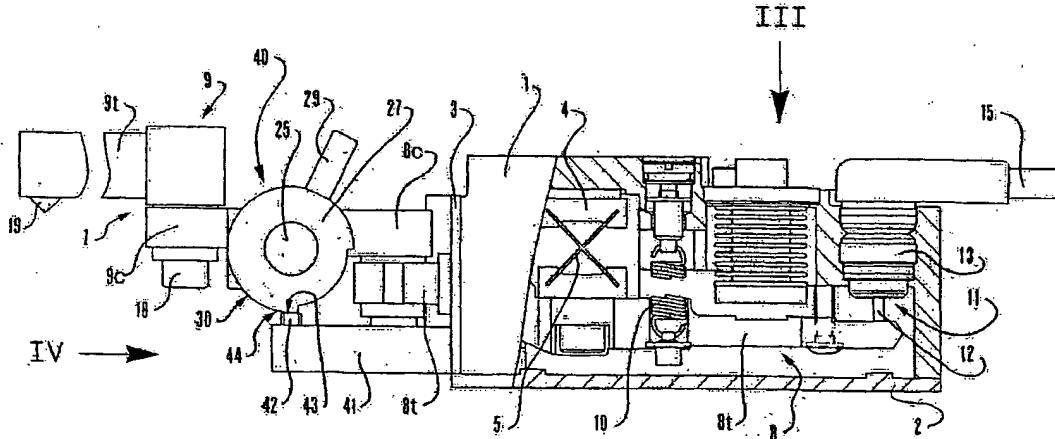
— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report

[Continued on next page]

(54) Title: HEAD FOR THE LINEAR DIMENSION CHECKING OF MECHANICAL PIECES



WO 2005/054776 A1

(57) Abstract: A gauging head includes a substantially closed casing, a movable arm with a first portion, partly located inside the casing and associated with a position transducer, and a second portion, outside the casing, carrying a feeler for contacting a piece to be checked, and a zero-setting mechanism for adapting the head to check pieces with different nominal dimensions. The zero-setting mechanism, located outside the casing, includes a quick locking/unlocking device between the first and second portions of the arm and a movable mechanical reference coupled with the first portion of the arm and including a reference surface cooperating with a corresponding reference surface for holding the first portion of the arm in a preset position with respect to the casing. The quick locking/unlocking device and the movable mechanical reference are operated together for unlocking the coupling between the portions of the arm and concurrently hold the preset position, and for locking together the two portions and concurrently release the arm.



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*